CONTENTS

VOLUME 3 NUMBER 1 **JULY/AUGUST 1988**

DEVELOPMENT OF NEURONAL MESSENGERS IN HAMSTER RETINA WITH NON-CYTOLYTIC MUMPS VIRUS INFECTION
T. Andersson, A. Löve, M. Schultzberg, E. Norrby and K. Kristensson 1

THE INCREASE IN PHOSPHOINOSITIDE TURNOVER ASSOCIATED WITH LONG-TERM POTENTIATION MAY BE MEDIATED THROUGH A GTP BINDING PROTEIN
M. P. Clements, M. A. Lynch and T. V. P. Bliss 11

EFFECTS OF MILACEMIDE ON THE VOCAL AND MOTOR BEHAVIOR OF SOCIALLY SEPARATED SQUIRREL MONKEYS (*SAIMIRI SCIUREUS*)
J. T. Winslow and J. D. Newman 21

TRANSIENT APPEARANCE OF PROOPIOMELANOCORTIN (POMC) MESSENGER RNA AND N-TERMINAL PEPTIDES IN RAT EMBRYO SPINAL CORD
A. Carr and L. W. Haynes 31

PRE-DEGENERATION DOES NOT INCREASE THE REGENERATION RATE OF SCIATIC NERVE SENSORY AXONS
M. A. Bisby 41

LIGHT-MEDIATED REGULATION OF SEROTONIN SYNTHESIS AND SEROTONIN N-ACETYLTRANSFERASE (NAT) ACTIVITY IN THE RABBIT RETINA
J. Z. Nowak, E. Zurawska and J. Zawilska 47

SPATIAL WORKING AND REFERENCE MEMORY OF ADULT AND SENESCENT RATS AFTER THIOPENTAL ANAESTHESIA
F. J. van der Staay, W. G. M. Raaijmakers, A. N. Sakkee and C. F. A. van Bezooijen 55

VOLUME 3 NUMBER 2 **SEPTEMBER/OCTOBER 1988**

ERRATUM ii

SPONTANEOUS DIABETES IN MICE: CATECHOLAMINE ANALYSIS IN VARIOUS ORGANS
F. Tessari, R. A. Travagli and M. Prosdocimi 63

PARENTERAL TREATMENT WITH GM_1 MONOSIALOGANGLIOSIDE INDUCES RECOVERY OF DOPAMINE SYNTHESIS AND RELEASE FOLLOWING NIGRO-STRIATAL HEMITRANSECTION
M. Raiteri, P. Versace, G. Maura and M. Marchi 69

PROTEIN SYNTHESIS, BUT NOT RNA TRANSCRIPTION, IS REQUIRED FOR THE ISOPROTERENOL INDUCED ACTIVATION OF TYPE-II 5'-DEIODINASE ACTIVITY IN THE RAT PINEAL GLAND
J. M. Guerrero, C. Santana, R. J. Reiter 77

EFFECTS OF ACUTE PARAOXON AND ATROPINE EXPOSURES ON RETENTION OF SHUTTLE AVOIDANCE BEHAVIOR IN RATS
J. E. Chambers, S. M. Wiygul, J. E. Harkness and H. W. Chambers 85

L-GLUTAMATE PROMOTES NEURITE OUTGROWTH IN ADULT HELISOMA NEURONS
P. G. Jones and A. G. M. Bulloch 93

cAMP-PHOSPHODIESTERASE IN THE SYNAPTIC REGIONS OF *DROSOPHILA* BRAIN
P. Dévay and P. Friedrich 99

MECHANISMS OF COLOUR VISION IN TURTLES
A. M. Granda and D. F. Sisson 107

TWO TYPES OF MITRAL CELLS IN THE TELEOSTEAN OLFACTORY BULB
J. R. Alonso, J. Lara, R. Coveñas and J. Aijón 113

AN ENZYME-LINKED IMMUNOADSORBENT ASSAY FOR LAMININ IN PRIMARY SCHWANN CELL CULTURES
R. van der Neut, P. Sodaar and D. P. R. Bär 119

VOLUME 3 NUMBER 3 **NOVEMBER/DECEMBER 1988**

ANALYSIS OF A PHASE TRANSITION IN HUMAN LOCOMOTION USING SINGULARITY THEORY
A. Beuter and F. Lalonde 127

PROTEIN KINASE C INHIBITORS PREVENT LONG-TERM MEMORY FORMATION IN THE ONE-DAY-OLD CHICK
S. M. Ali, S. Bullock and S. P. R. Rose 133

INCORPORATION OF GANGLIOSIDE GM_1 INTO RAT BRAIN AFTER INTRAVENTRICULAR ADMINISTRATION
D. Masco and W. Seifert 141

THE NMDA-ANTAGONIST MK-801 REDUCES EXTRACELLULAR AMINO ACID LEVELS DURING HYPOGLYCEMIA AND PREVENTS STRATIAL DAMAGE
E. Westerberg, J. Kehr, U. Ungerstedt and T. Wieloch 151

FOOD INTAKE SUPPRESSION BY IMMUNOMODULATORS
C. R. Plata-Salaman 159

CHRONIC TREATMENT WITH FG 7142 REDUCES THE FUNCTION OF THE $GABA_A$ RECEPTOR-COUPLED CHLORIDE IONOPHORE IN RATS
M. G. Corda, B. Longoni, O. Giorgi, A. Fernandez and G. Biggio 167

PHORBOL ESTERS INDUCE LONG- AND SHORT-TERM ENHANCEMENT OF B-50/GAP43 PHOSPHORYLATION IN RAT HIPPOCAMPAL SLICES
P. N. E. De Graan, F. M. J. Heemskerk, L. V. Dekker, B. P. C. Melchers, C. Gianotti and L. H. Schrama 175

IMMUNE FUNCTIONS AFTER BILATERAL NEOCORTEX ABLATION IN MICE
P. J. Neveu, P. Barnéoud, S. Vitiello and M. Le Moal 183

VOLUME CONTENTS iii

AUTHOR INDEX v

KEY WORD INDEX vi